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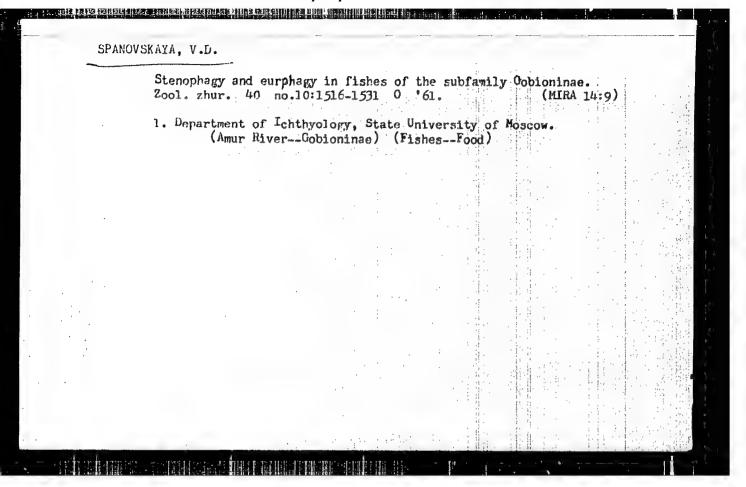
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1. Kafedry gidrologii sushi i ikhtiologii Moskovskogo gosudarstvennogo universiteta. (Mozhaysk Reservoir—Hydrology) (Mozhaysk Reservoir—Fishes)



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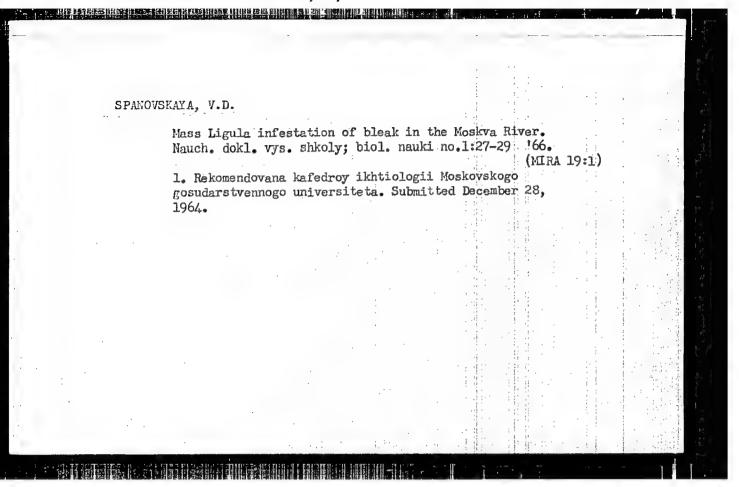
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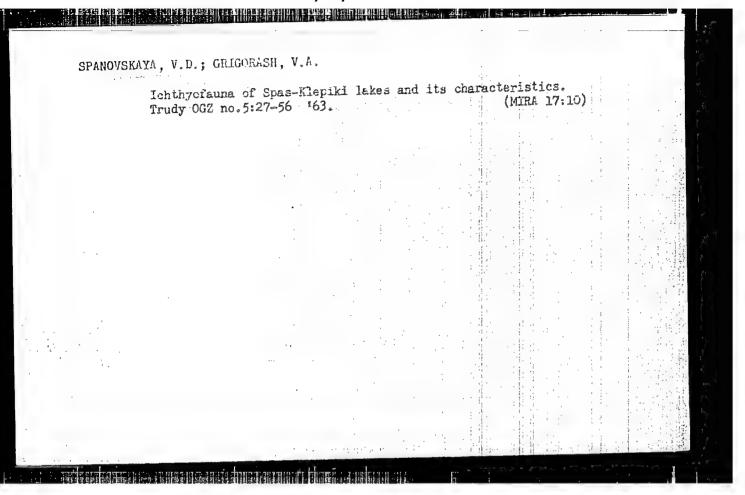
1. Department of Ichthyology, State University of Moscow. (Amur Valley-Gobies)

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l. De	partment of I	chthyology,	State Un	iversity	of Mos	cow.	
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1.	Kafedra ikh	tiologii Mo	skovskogo g	osuda ra tvenno	(MIRA 18:6) go universiteta.	
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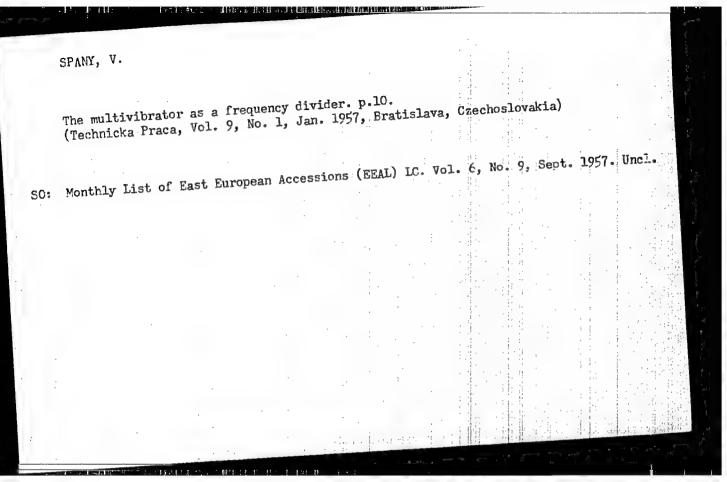
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Design for a diode pump integrator.

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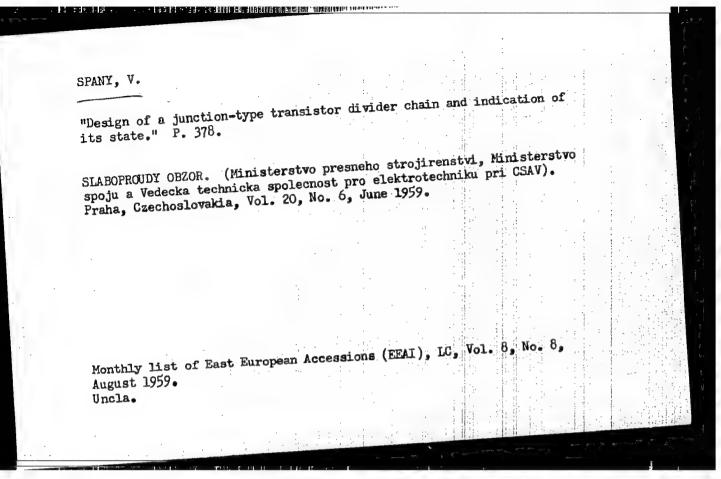
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Two basic elements of the electronic counter; a simple ating circuit and decade scaler.

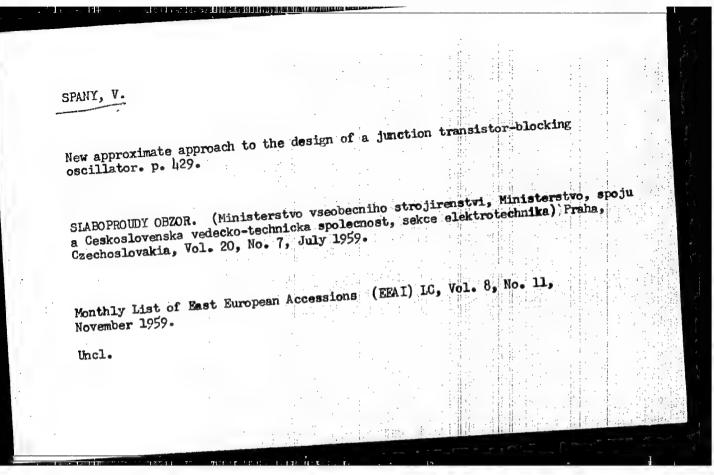
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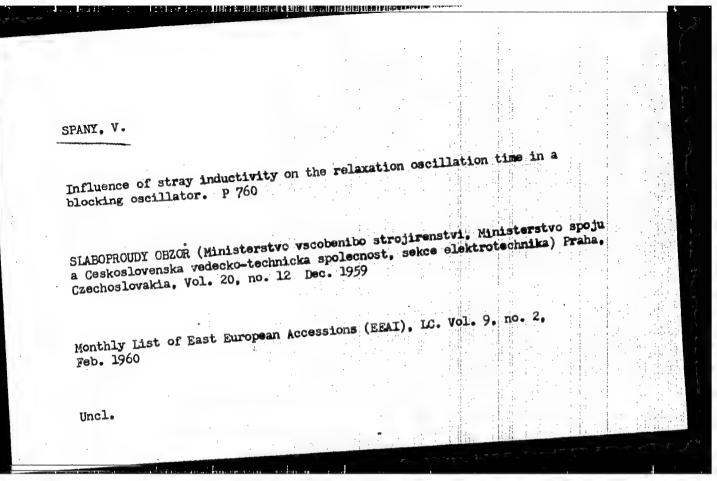
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Storage-type integrator circuit with a junction-type transistor blecking oscillator as a pulse-frequency divider. p. 565

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Monthly List of East European Accessions (EEAI), LC. Vel. 9, no. 2 Feb. 1960

Uncl.



Z/014/60/000/012

9,4310 (1139,1154,1159,1161)

AUTHOR:

Špány, Viktor, Engineer

TITLE:

The over-saturated transistor and its performance

PERIODICAL: Sdělovací technika, no. 12, 1960, 449 - 451

The article describes the performance of a transistor in impulse operation, with special emphasis of delay time. The author points to a special TEXT: case, not yet mentioned in literature, which occurs, when the emitter junction with its recovery time t2, behaves during the time-delay like an unsaturated collector circuit. In response to an impulse, a transistor reacts with a time delay, caused by the surplus of minority carriers in the base region. This time delay is primarily determined by the level of input signals, which cause the oversaturation of the transistor, secondarily by transistor characteristics. To calculate the time delay, it is essential to determine the inverse parameters of the transistor. The response of an unsaturated transistor to an impulse is given by an exponential equation which is generally applicable to leading and trailing edges of the response pattern of the function  $\Delta f(\infty)$ , which represents either a voltage or a current impulse. There is no substantial difference in the duration

Card 1/6

表表示于<del>表表的差别和全部用题相互相比例相模的"时间"的</del>的

21347

Z/014/60/000/012/002/005

The over-saturated transistor...

of leading edges in common-emitter or common-base connection, when signal currents have the same value  $(I_b \cong I_e)$ . The wiring of a transistor, controlled by rectangular impulses of the amplitude  $(E_1)$  till over-saturation, is shown in Figure 3. The collector junction is open (i.e. during impulse duration, the base potential of point [B] will be lower than that of the collector in point [K]). Due to the surplus of minority carriers, which float the junctions, the potential of point (K) does not drop immediately after the end of the input signal, but requires a certain time delay  $(t_0)$  till it starts dropping, and reaches the full value of the external source (E) after a certain recovery time  $(t_Z)$ . After the time of impulse duration  $(t_1)$ , time delay  $(t_0)$  and recovery time  $(t_Z)$ , the transistor operates in the active region. The pulse leading-edge time  $(t_p)$  and duration of  $t_0$  and  $t_Z$  are primarily determined by the cutoff current  $(I_S)$ . The time delay  $t_0$  can be calculated by the equation

$$t_0 = i \ln \frac{Q}{1 - \frac{I_h - I_s}{I_h - I_d}}$$
 (6)

or, more precisely, by the formula derived by J. L. Moll

Card 2/6

21347 Z/014/60/000/012/002/005 A205/A126

The over-saturated transistor ..

$$t_0 = \frac{\widehat{\omega}_{d_1} + \omega_{d_1}}{\omega_{d_1} (1 - a_{d_1})} \ln \frac{I_1 - I_2}{(I_8/A) - I_2}$$
 (7)

which also considers inverse transistor parameters. To verify the applicability of these equations, test measurings were made with a "1NU70" af transistor. After measuring regular parameters and the inverse cutoff frequency, the input circuit of the transistor was modified (Fig. 5) for measuring the time delay. Rectangular impulses of a length of 50  $\mu$ sec and a negative amplitude of 70 v (against ground) were fed to the input (A). The diode (D) secured zero-level of input signals in the circuit; measurings were made at R =  $\infty$ . The time delay, calculated according to Equation 6 is 41.2  $\mu$ sec, calculated according to Equation 7 it is 49.6, and the time delay, actually measured is 52.5  $\mu$ sec. A very interesting effect, so far neglected in literature, was observed when the base is negatively biased. Excess holes in the base region are absorbed partly by the regular collector, partly by an artificially created collector, which, in the instance of the negative voltage influence, replaces the denser emitter junction. Later, when the collector junction is being desaturated, the response changes. The impulse duration (t<sub>1</sub>) is followed by the time delay (t<sub>0</sub>) which can be subdivided into periods (t<sub>1</sub>) and (t<sub>2</sub>). During (t<sub>1</sub>), both junctions are oversaturated, during (t<sub>2</sub>), the emitter

Card 3/6

CIA-RDP86-00513R001652630004-4 

The over-saturated transistor

junction is already desaturated (voltage drop on the resistor R), while the collector junction is still oversaturated, which appears, as if base and collector were shorted. The oscillogram shows, that the collector pattern follows the base potential throughout the entire period (to), and it is only after that time has elapsed, that the recovery pattern (tz) appears also for the collector circuit, In this specific case, differences between calculated and measured time delay are even bigger than in the aforementioned experiment. There are 9 figures and 1 non-Soviet-bloc reference. The reference to the English-language publication reads as follows: R. F. Shea a ini: Transistor circuits engineering, John Willey, New York, 1958 (Abstracter's note: there seems to be a misprint in the name of the author)

Card 4/6

S/194/62/000/009/013/100 D201/D308

AUTHOR:

Spány, Viktor

TITLE:

A universal thermal relay

· 首任教 1984年 第18年 2014年 1884年 1884年 1885年 1885年

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1962, abstract 9-2-14 ts (Czech. pat., cl. 21

g, 4/05, no. 98648, February 15, 1961)

Gard 1/1

P/034/61/000/009/003/004 25136 D247/D302

9,2560

Špány, Viktor, Engineer

A symmetrical circuit with complementary transistors AUTHOR:

TITLE:

Pomiary, Automatyka, Kontrola, no. 9, 1961, 382-384

PERIODICAL:

The author gives several theoretical transistor circuits using complementary transistors. The basic emitter coupled circuit is shown in Fig. 1. If voltage source u1 and u2 are independent

are correct. The ratio of collector currents is given by then  $\beta_{libl} = \beta_{2lb2} * ie$ 

(3)  $\beta_2(\beta_1 - 1)$ β1(β2 = 1)

and is symmetrical. An improved version of the circuit is then given with only one independent voltage source. Circuit (Fig. 1) can be used for phase discrimination. and u2 were applied respectively (Fig. 3). Surrent through the

Card 1/4

<sup>25136</sup>P/034/61/000/009/003/004 D247/D302

A symmetrical circuit...

collector of  $T_1$  flows if  $u_1 > u_2$ . The angle of opening is equal to phase angle. Only in this period both transistors are conducting. Fig. 5 shows the cross modulator. Primary windings L1....L4 are wound in the same direction and black dots denote their short. Fig. 9 shows the flip flop circuit. If  $T_1$  and  $T_2$  are non conducting then R, Rk, R1, R2 make an unstable bridge and base of T2 is positive in relation to the base of  $T_1$ . To fulfill this condition  $R > \frac{(R_k + R_1)^2}{R^2}$  (5)

 $R \ll \rho R_k \gg R_2$ (6) and

The application of this circuit is then shown must be satisfied. as a thermal relay. In the design care must be taken that the potential of b2 > b1. None of these circuits has been used in prac-There are IO figures and 1 Soviet-bloc reference.

ASSOCIATION: Słowecka polytechnika w Koszycach (Slovak Polytechnic at Koszyce)

Card 2/4

23574

**Z/**039/61/022/004/003/003 **E**192/**E**382

9,2560

AUTHOR: Spany, Viktor, Engineer

TITLE: Junction Transistors in Switching (Flip-flop)

Circuits

PERIODICAL: Slaboproudý obzor, 1961, Vol. 22, No. 4, pp. 231 - 239

TEXT: A large number of switching circuits based on junction transistors are reviewed. The following four types of switching circuit are distinguished:

1) circuits with transistors of the identical conductivity type, with collector coupling;

2) emitter-coupled circuits with transistors of identical conductivity type;

5) collector-coupled circuits with complementary transistors;
4) emitter-coupled circuits with complementary transistors.

With regard to the circuits of the first group the basic item is the classical bi-stable circuit shown in Fig. 1. The circuit is slightly modified by introducing small resistances into the emitters of each transistor; these resistances are Card 1/8

23574

Z/039/61/022/004/003/003 E192/E382

Junction Transistors ....

bypassed with the capacitance C (Ref. 1). The purpose of this modification is the elimination of the integrating effect of the collector-base coupling capacitances which perform the memory function. The circuit of Fig. 1 also has the advantage that it is very sensitive with respect to the triggering pulses, since its input impedance is increased by connecting the resistances into the emitters. If the DC coupling in Fig. is replaced by capacitive coupling, the circuit becomes a free-running multivibrator. Such a multivibrator can be either symmetrical or asymmetrical but it suffers from the integrating effect so that it is difficult to obtain the rectangular wave form at the collectors. This deficiency can be eliminated by adopting the multivibrator circuit given in Fig. 3. It is also possible to eliminate this effect by introducing suitable resistances in the emitters of the transistors. A further modification of the basic circuit will result in a monostable multivibrator (a univibrator). circuit of this type is shown in Fig. 6 and produces a short output pulse of stable duration. The basic circuit can also be Card 2/8

23574 Z/039/61/022/004/003/003 E192/E382

Junction Transistors ...

modified to produce triangular output pulses or made into a free-running multivibrator generating a symmetrical triangular waveform. The basic representatives of the second group are shown in Figs. 9 and 10; the first of these circuits is a bi-stable emitter-coupled pair, while the circuit of Fig. 10 is a bi-stable pair with limiter diodes. The operation of the circuit of Fig. 9 is as follows: first, T<sub>2</sub> is open

and  $T_1$  is closed; the second stable state is achieved by driving  $T_1$  into saturation since  $T_2$  cannot be completely closed. The basic circuit of Fig. 9 can be used to devise such systems as free-running multivibrators, Schmitt triggers, monostable circuits and high-speed bi-stable circuits. The devices based on complementary transistors are characterised by the fact that both transistors become opened (or closed) during the transition. The representative circuit with a collector-coupled pair of complementary transistors is illustrated in Fig. 18 (Ref. 14). This is a bi-stable circuit. Free-running multivibrators and monostable circuits based on this Card 3/8

Z/039/61/022/004/003/003 E192/E382

Junction Transistors ....

complementary arrangement are also possible. A simple circuit based on complementary transistors with emitter-coupling is illustrated in Fig. 21. This is a univibrator which is triggered by an external pulse which results in the operation of an electromagnetic relay connected in the collector of T<sub>2</sub>. The circuit of this type can be modified into a bi-stable pair or a free-running multivibrator which can be used as a frequency divider.

There are 23 figures and 30 references: 5 Czech and

There are 23 figures and 50 references. 5 Seen and 25 non-Czech.

ASSOCIATION:

VŠT, Košice

SUBMITTED:

January 5, 1960

Card 4/8

28397

Z/039/61/022/011/004/006 D291/D304

9.2560 (1040, 1139, 1161)

AUTHOR:

Spany, Viktor, Engineer

TITLE:

New coupling of two transistors with complementary sym-

metry

PERIODICAL:

Slaboproudy obzor, v. 22, no. 11, 1961, 671-674

TEXT: The author describes the performance of a novel flip-flop in a bistable, astable, and non-regenerative state. The principle of the novel coupling, i.e. collector coupling of two complementary transistors in series with common collector, is shown in Fig. 1d. This circuit has two stable states and is, therefore, capable of regenerative action; the astable and monostable state respectively can be adjusted by the choice of circuit parameters. In its astable state, the new circuit is capable of sawtooth generation; the peak-to-peak voltage is then nearly equal to the voltage of the source feeding the circuit. Thus, the circuit performs as a "free-running" phantastron with a greater linearity than can be achieved by the negative feedback of a

Card 1/2

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652630004-4

2/039/61/022/011/004/006 p291/p304

New coupling of two ....

Miller integrator. The very effective synchronization shows that the new device is suitable for impulse-frequency division. In a non-regenerative state, two complementary ransistors with common collector can be used for generating triangular, trapezoidal and sawtooth pulses, eventually for multiple integration. There are 9 figures and 3 Soviet-bloc references.

ASSOCIATION: Vysoka skola technicka, Kosice (Institute of Technology

in Kosice)

SUBMITTED:

May 24, 1961

katektorová väzba

kolektorová väzba sériovej komplumentárnej dvojce zo spa ločními kolektormi Fig. 1d. Collector coupling of two complementary transistors in series, with common collector.

Card 2/2

35276 Z/039/62/023/004/005/010 D291/D303

9,4310 (1139,1150,1159)

AUTHOR:

Spåny, Viktor, Engineer

TITLE:

Oscilloscopy of the transistor amplification factor

Slaboproudy obzor, v. 23, no. 4, 1962, 218-223

TEXT: The article describes an instrument for oscilloscopic indication

discription of the control of the co

of the transistor current-amplification factor  $\beta = f(l_b)$  by a novel

method using the derivation of the transfer characteristics  $I_k = f(I_b)$ .

The instrument is based on an oscilloscope circuit for indicating def(I ) by the well-known modulation principle, described in Rider-Uslan (Ref. 1: Encyclopedia on cathode-ray oscilloscopes and their uses. London: Chapman and Hall, 1959, pp 19-16). The novel circuit is modified inasmuch as the modulation-signal source, filters, the frequency filter, and the demodulator are omitted. The transistor input is excited by sawtooth waves which also serve as time base. The output signal of the collector is derived and the function  $\beta = f(I_b)$  is presented on the oscillose

The described circuit is suitable for measuring n-p-n cope tube.

Card 1/2

Z/039/62/023/004/005/010 D291/D303

Oscilloscopy of the ...

transistors and can easily be adjusted for measuring of p-n-p transistors. The author now gives a more detailed description of the instrument circultry, its calibration and experimental results achieved in measuring the current-amplification factor of TESLA 103NU70 transistors. In conclusion the author states that the described method permits a comparison and determination of optimum current-amplification of transistors, and the indication of dependencies  $\mathbf{I}_k = \mathbf{f}(\mathbf{I}_k)$  and  $\boldsymbol{\beta} = \mathbf{f}(\mathbf{I}_k)$  by mere switch-

over. It is especially suitable for transistors with small cut-off frequencies, since the basic sawtooth frequency lies near the motion-picture frequency and a modulation frequency of some kc is not required. There are 12 figures and 3 references, 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Rider-Uslan: Encyclopedia on cathode-ray oscilloscopes and their uses. London: Chapman and Hall, 1959, pp 19-16.

ASSOCIATION: Vysoka škola technická, Košice (Institute of Technology,

Kosice)

SUBMITTED: January 5, 1962

Card 2/2

Z/042/63/000/003/001/002 E140/E135

AUTHOR: Spany, Viktor, Docent Engineer

TITLE: Tunnel diode as frequency divider

PERIODICAL: Elektrotechnicky casopis, no. 3, 1963, 113-122

TEXT: The author first shows that the tunnel diode frequency divider functions better in an astable regime than as a monostable frequency divider. In this case variations in supply voltage about an optimal value at which the derivative of the frequency/voltage curve vanishes will alter primarily the duty cycle and not the frequency. Synchronization of one edge of the pulse only is recommended, and the circuit of Fig.10 is derived. This circuit is claimed to give a stable 10:1 frequency ratio for variations of supply voltage of 50% and duty cycle in the range 2/3 < S < 3/2.

There are 11 figures.

ASSOCIATION: Vysoká škola technická v Košiciach

(Technical High School, Cosice)

SUBMITTED: September 27, 1962

Currel 1/2

SPANY, Viktor, doc., inz.

Binary divider with tunnel diodes. Slaboproudy obzor 24 no.5:286-290 My \*63.

1. Vysoka skola technicka, Kosica.

Z/039/63/024/002/002/006 E140/E163

AUTHOR: Spany, Viktor, Docent, Engineer

TITLE: Analysis of monostable and astable regimes of tunnel

diode circuits

PERIODICAL: Slaboproudy obzor, v.24, no.2, 1963, 77-82

TEXT: This is a straightforward graphico-analytical analysis

of some well-known tunnel diode circuits, with experimental

observation of waveforms as represented by photographed

oscillograms.

There are 15 figures and 1 table.

ASSOCIATION: Vysoka skola technicka, Kosice

(Technical High School, Kosice)

SUBMITTED: September 17, 1962

Card 1/1

SPANY, Viktor, doc., inz.

Tunnel diode behavior during large-signal circuits. Slabopromy obzor 24 no.6:335-339 Je \*63.

1. Vysoke skola technicka, Kosice.

ACCESSION NR: AP4029394

z/0039/64/025/004/0216/0218

AUTHOR: Spany, Viktor (Shpany\*y, V.) (Docent, Engineer)

TITIE: New ring counter with tunnel diodes

SOURCE: Slaboproudy obzor, v. 25, no. 4, 1964, 216-218

TOPIC TAGS: ring counter, tunnel diode, trigger pulse, pulse amplitude, pulse duration, current supply, counting circuit, transistor, counter

ABSTRACT: The design and performance of a ring counter with tunnel diodes is described. Compared with the ring counters of known and published types, this counter is not sensitive to amplitude and duration of the triggering pulse, nor to current supply variations. Another advantage is in the easy design of the counting chain and the small number of semiconductor devices necessary for its working. Fig. 1 of the Enclosure is the basic schematic. Orig. art. has: 1 figure.

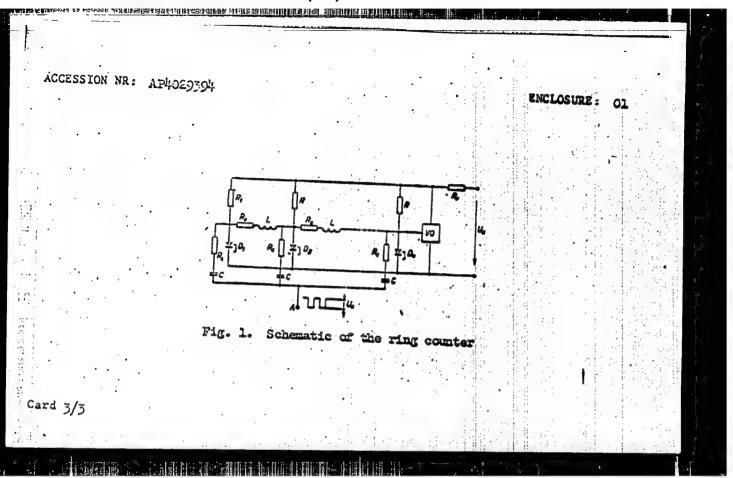
Card 1/3

ACCESSICI NR: AP4029394

ASSCCIATION: Vysoka skola technicka, Kosice ( Higher Technical School)

SUBNITTED: 120ct65 DATE ACQ: OlMay64 ENCL: 01

SUB CODE: EC NO SOV NEF: OO4 OTHER: COO



SFANY, Viktor, doc. inz.

Silicon diode with negative resistance. Slaboproudy obzer 25 no. 7:435-436 Jl '64.

1. Higher School of Technology, Kosice.

SPANY, Viktor, doc. inz.

Computing chain with tunnel diodes. El tech cas 15 no.10:586-593

1. Chair of Electrical Engineering of the Higher School of Technology in Kosice.

SFANY, V.; SEFARA, J.; SOLTESZ, T.; TIMCAK, G.

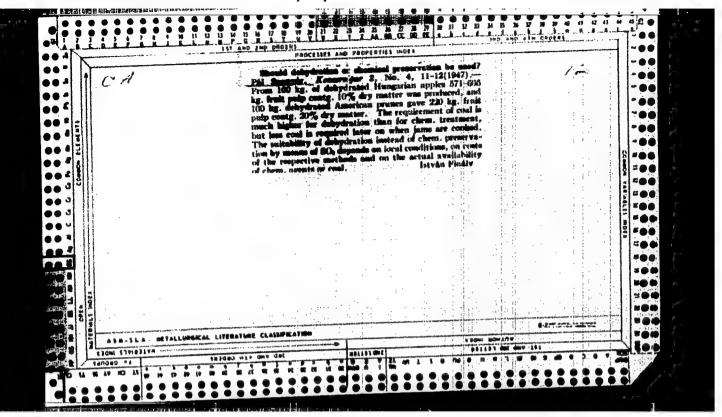
Automatic control of water level by a transister relay.
Sbor VST Kosice 1:185-189 '64.

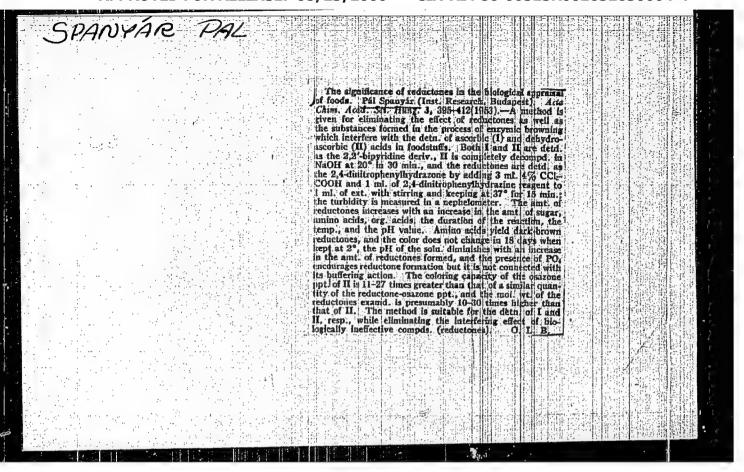
1. Scientific Circle of Students affiliated with the Chair of Electrical Engineering of the Higher School of Technology, Kosice. Submitted June 3, 1963.

。 第14章 中华美国民国政治,1945年194日,1945年194日,1945年194日,1945年194日,1945年194日,1945年194日,1945年194日,1945年194日,1945年194日,1945年1

ACC NR: AP6028003	SOURCE CODE: C7/0042/65/000/009/0513/0526
AUTHOR: Spany, Viktor (Docent; B	Engineer; Cundidate of sciences; Kosice)
ORG: Mechanical Engineering Factoria, Vysoka skola technicka	culty, Institute of Technology, Kosice (Strojnicka 3
TITLE: Limiting cycle of oscill	lators
SOURCE: Elektrotechnicky casop	is, no. 9, 1965, 513-526
abstract: The article calculation of the princip of oscillators, that is, the ample of a relaxation oscillation of tude of the oscillations if general conclusions about	cle describes a new method for the cal parameters of the limiting cycle the amplitude and frequency. An exillator with a single reactance elected with that oscillator the amplitude and frequency of the circuit from the behavior of the circuit from eriod duration. This paper was presented by J. igures and 62 formulas. Based on author's Eng. abst.
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	31563		OURCE CODE:	CZ/0039/65/026	/008/0469/047	75
AUTHOR: Spany	. Viktor (Docer	nt; Engineer)			28	
ORG: <u>Technica</u>	l Institute, Ko	sice (Vysoka skol	la technicka		B	
TITIE: Qualit	y of active cir	cuit elements				
SOURCE: Slabo	proudy obzor, v	. 26, no. 8, 1965	5, 469-475			
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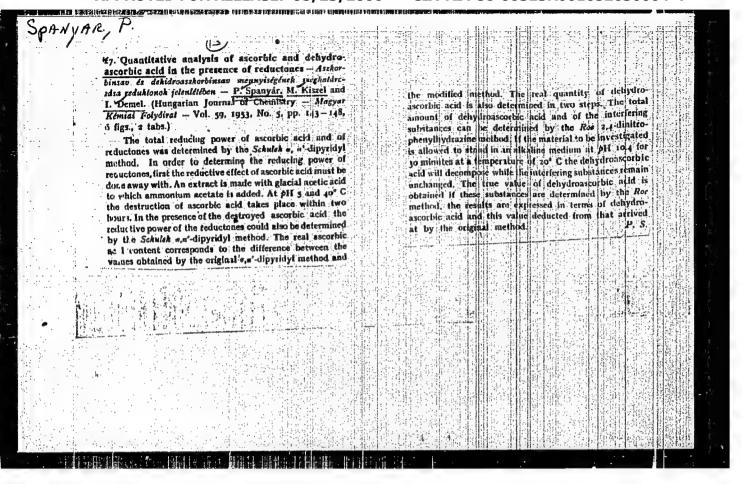
Factors in the evaluation of foodstuffs containing ascordic acid" p. 178, (ELEC NEZI IPAR, Vol. 7, no. 5, May 1953, Budapect, Hungary)

So: Menthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

Preliminary conditions in ELEMENTEEN TPAR, Vol. 7	, no. 6, Jun	e 1953,	Buda	pest,	, Hun	gary)			:	
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SPANYAR, P.

"Aspects in Selecting Sites Suitable for the Establishment of New Canning Plants", P. 193, (ELELMEZESI IPAR, Vol. 8, No. 7, July 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

SFANYAR, P.
SPANYAR, P. - Elelmezesi Ipar - Vol. 9, no. 5, May 1955.

New solution for continuous sterilization. p. 155.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955.

Uncl.

SPANTAR, PAL

HUNGARY/Physical Chemistry - Electrochemistry.

B-12

Abs Jour

: Ref Zhur ~ Khimiya, No 7, 1958, 20786

Author

Fal Spanyaa, Janosne Kevei, Jozefne Kiszel.

Inst Title

On the Methods of Polarographic Result Evaluation.

Orig Pub

: Elelm. ipsr, 1955, 9, No 11, 326-332.

Abstract

A method of polarographic determination of concentration by polarographing solutions with the addition of the same substance in known concentrations was developed. It was established that the best results were obtained, if the added solutions had been also polarographed additionally. The possibility of determination of very low substance

concentrations is shown.

Card 1/1

A method for the separation and polarographic determination of substance of biological activity present in foods in minute concentrations. In German p. 295. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary) p. 295. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary)

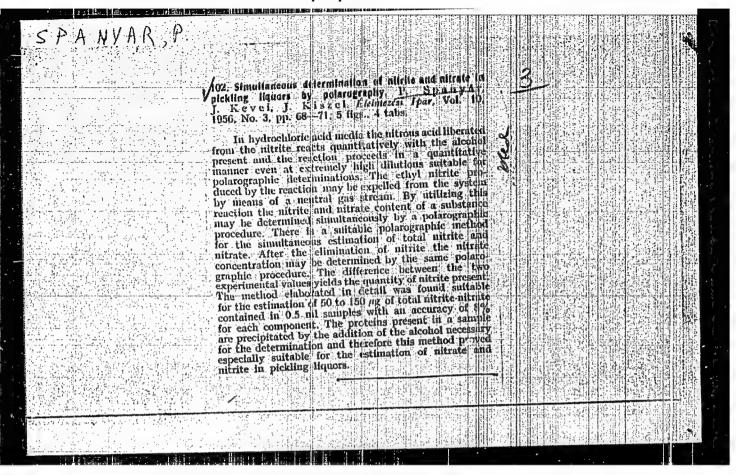
S0: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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SPANYAR, P.

SPANYAR, P. Determination of capsaicin content. p. 52. Vol. 10, no. 2, Feb. 1956. Budapest, Hungary.

SOURCE: East European Accessions List (EFAL) Vol. 6, No. 4-April 1957



SPANYAR, F.; INCZEDY, A.

Real vitamin C content in plants used in the food industry. p. 311. (Elelmezesi Ipar, Vol. 10, no. 10/12, Oct./Dec. 1956. Budapest, Hungary)

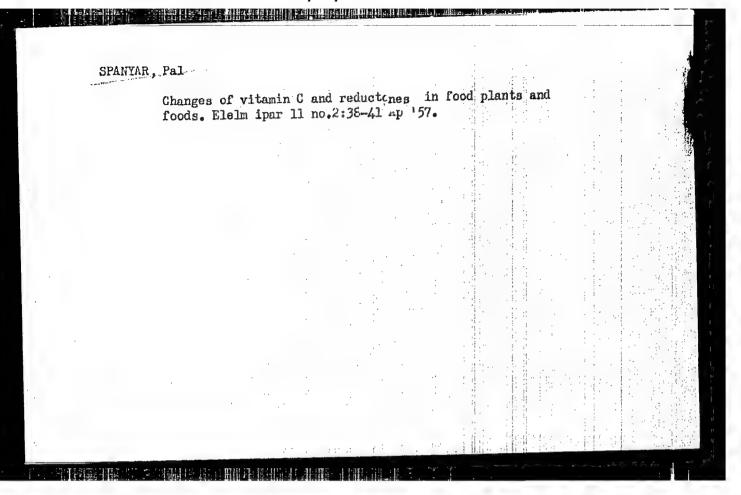
SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sept. 1957. Uncl.

SPANYAR, P.; KEVEI, E.; KISZEL, M.

Determination of capsaicin content. In German.

P. 137, (Acta Chimica) Vol. 11, no. 1/2, 1957, Budapest, Hungary

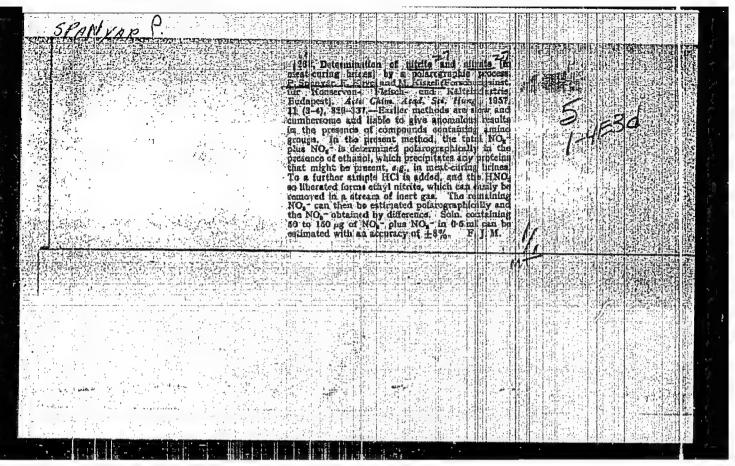
SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

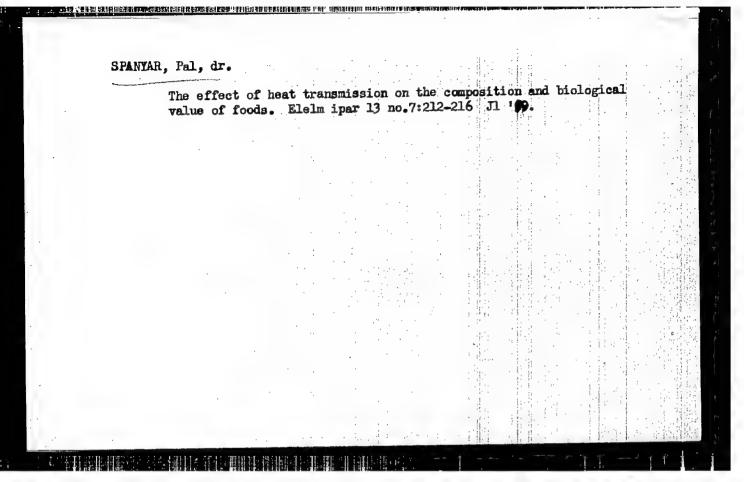


SPANYAR, Pal; INCZEDY, Anna

Determination of lycopene content in tomatoes. Elelm ipar 11 no.3/4: 74-76 Je-J1 '57.

1. Konzerv-, Hus- es Hutoipari Kutato Intezet.





SPANYAR, Pal; KEVEI, Janosne; BLAZOVICH, Marta; DEMEL, Ervinne; KUTZ, Vaszilijne

Requirements for preserving vitamin c in fruit juices and refreshing drinks. Konzerv paprika no.6:189-193 N-D '62.

1. Kozponti Elelmiszeripari Kutato Intezet.

LORINCZ, Ferenc, dr.; SPANYAR, Pal, dr.; KIESELBACH, Gyula, dr.; KAZAR, Jeno

Development in the Hungarian meat-industry standards. Szabvany kozl 14 no.3:59-61 Mr '62.

SPANYAR, Ye.; BALAZ, V.; LOMSKY, R.

Our experience in treating hirsutism with cortisons and prednisons.

Probl. endok. i gorm. 6 no. 3:111-116 My-Je. '60. (MTRÁ 14:1)

(HYPERTRICHOSIS) (CORTISONE), (PREGNADIENEDIONE)

CZIGLINA, Vilmos; SPANYI, Erno; SZEPESI, Karoly
Insulation of irrigation canals. Vizugyi kozl no.4:519-548
159.

CZIGLINA, Vilmos, okleveles mernok; MARTON, Jozsef, okleveles mernok; SPANYI. Erno, okleveles mernok

Watertight curtains and cutoffs. Vizugyi kozl no.3:431-459 162.

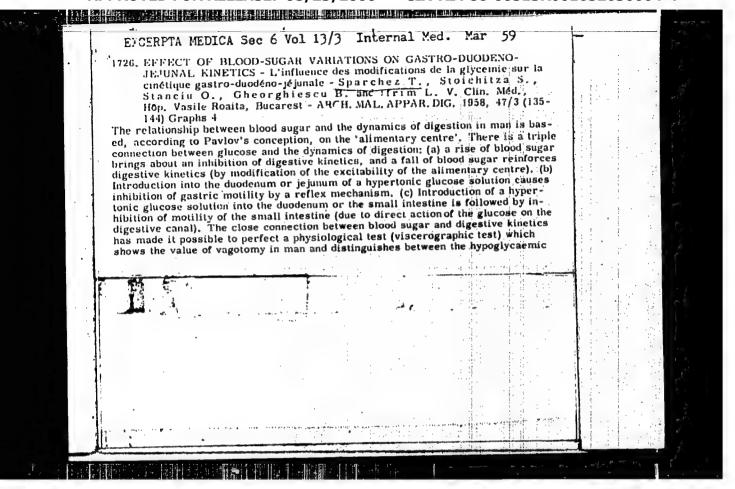
1. Tatabanyai Szenbanyaszati Troszt csoportvezeto fomernoke (for Cziglina). 2. Orszagos Vizuri Foigazgatosag Vizepitoipari Foosztalyanak fomernoke (for Marton). 3. Foldmero es Talajvizsgalo Vallalat nyugalmazott tervezo mernoke (for Spanyi).

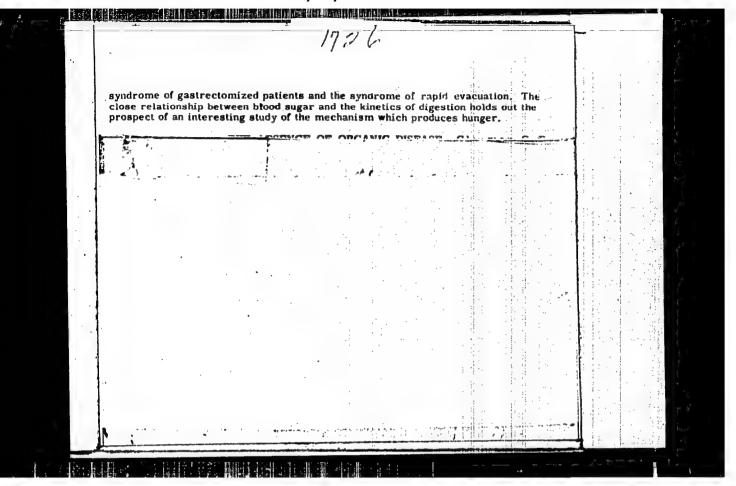
SPANYI, I.

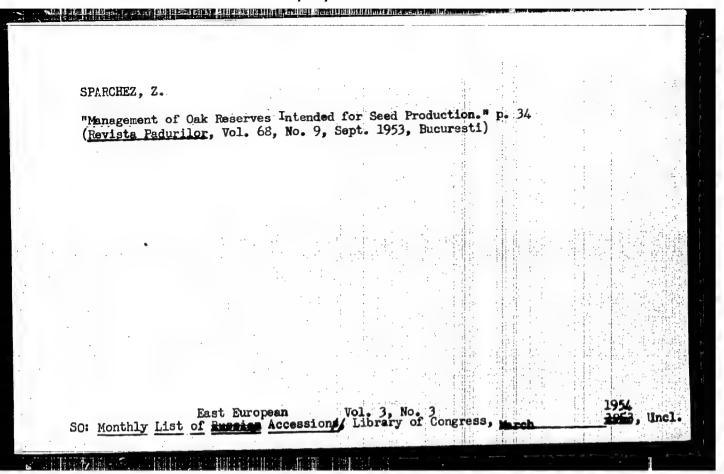
Walter Wundt's Hydrography; a bood review.

P. 245, (Foldrajzi Ertesito) Vol. 6, no. 2, 1957, Budapest, Hungary

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957



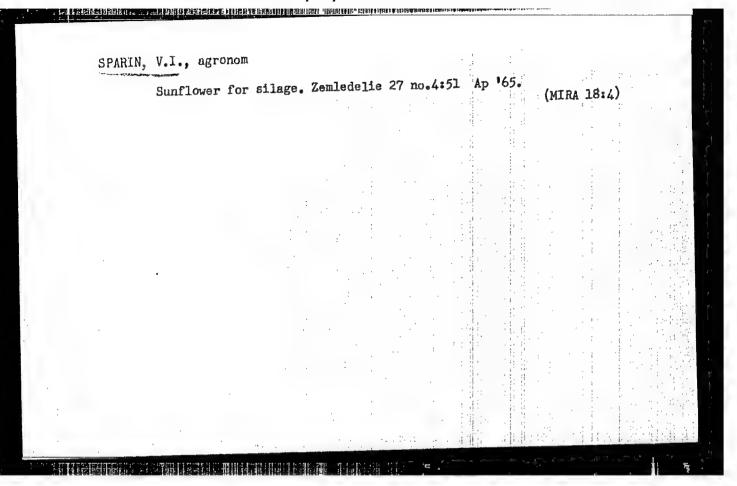




LYUBINSKIY, N.I.; SHIRYAYEV, I.N.; KNIZHNIKOV, M.G.; GLADYSHEV, S.S.; KIVER, V.F.; SPARIN, V.I., agronom

Use advanced cultivation practices for sunflowers. Zemledelie 27 (MIRA 18:4) no.4147-51 Ap 165.

1. Orenburgskaya chlastnaya sel skokhozyaystvennaya opytnaya stantsiya (for Lyubinskiy). 2. Predsedatel kolkhoza imeni Kirova, Oktyabr skogo rayona, Orenburgskoy oblasti (for Shiryayev). 3. Predsedatel kolkhoza "Pamyat" Il icha" Dinskogo rayona, Krasnodarskogo kraya (for Knizhnikov). 4. Glavnyy agronom kolkhoza "Pamyat" Il icha", Dinskogo rayona, Krasnodarskogo kraya (for Gladyshev). 5. Starshiy agronom Pologskogo proizvodstvennogo upravleniya, Zaporozhskoy oblasti (for Kiver).



Conditions and requirements of wool finishing plants in Yugoslavia. p. 85. Vol. 5, No. 2, Feb. 1956.
TEKSTIL. Zagreb, Yugoslavia.

SOURCE: East Buropean Accessions List, (EEAL) Library of Congress, Vol. 5, No. 8, August, 1956.

Den ind, C.						
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	Protection of woo	ol from moths an icara tekstilaca	d beetles. Hrvatske)	p. 672. Zagreb.	TEESTIL. (Drus Vol. 5, no. 8,	tvo
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BATMANOV, N.Ya.; SPAROVOY, V.M.

Bilateral surgical interventions in pulmonary tuberculosis. Grud. khir. no.4:71-76 J1-Ag '62. (MIRA 15:10)

1. Iz sanatoriya imeni A.P.Chekhova (glavnyy vrach V.V.Aleksandrov-skaya) Yalta. Adres avtorov: g. Yalta, sanatoriy im. A.P.Chekhova. (TUBERCULOSIS)
(LUNGS—SURGERY)

USSR/General and Special Zoology. Insects. Insect and Mite Pests. Fruit and Berry Crop Pests.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92263

Author : Sparsiashvili, D. G., Modebadze, V. P.

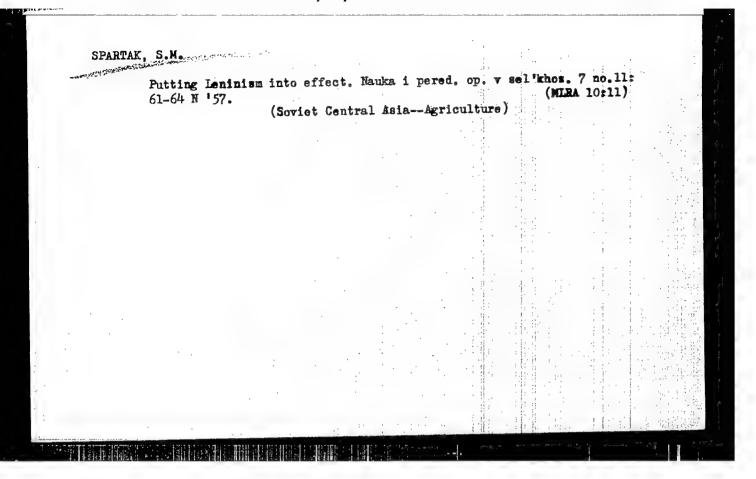
Inst: : The Agrotechnical Method of Controlling the Spider Mite.

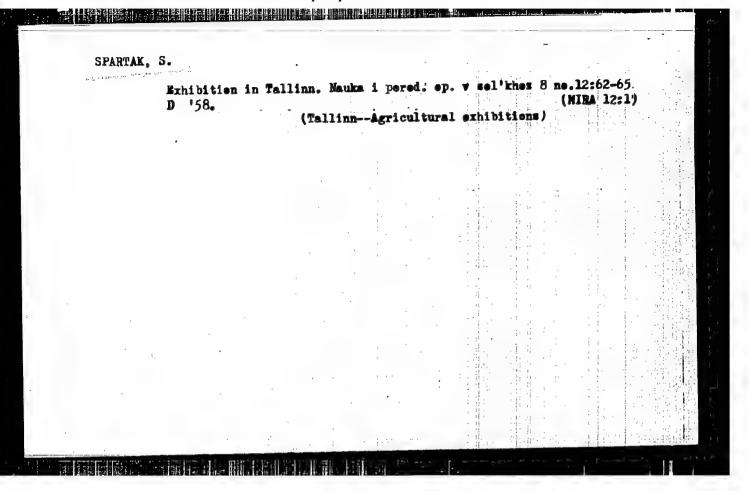
Orig Pub: Vinodeliye i vinogradarstvo SSSR, 1957, No 4, 42-43

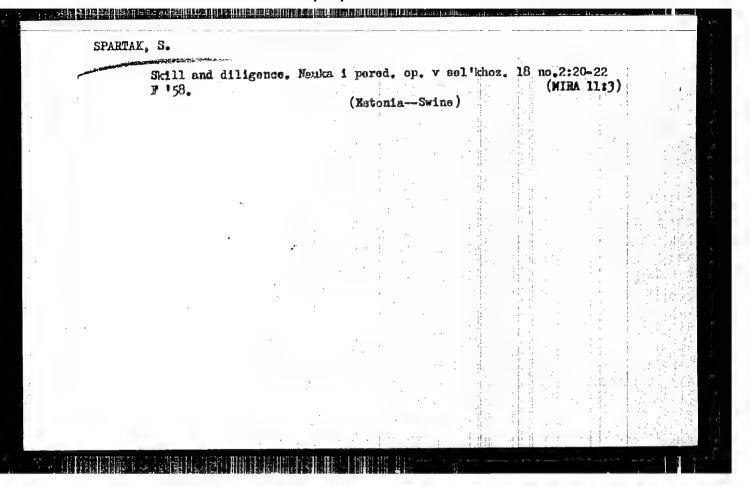
Abstract: Mites which hibernated under the loose bark of the grapevine move to the leaves (about 95 percent of them to the first three bottom leaves of the shoot). Upon removal between 10 and 20 May of all leaves (and burying them in the ground), the

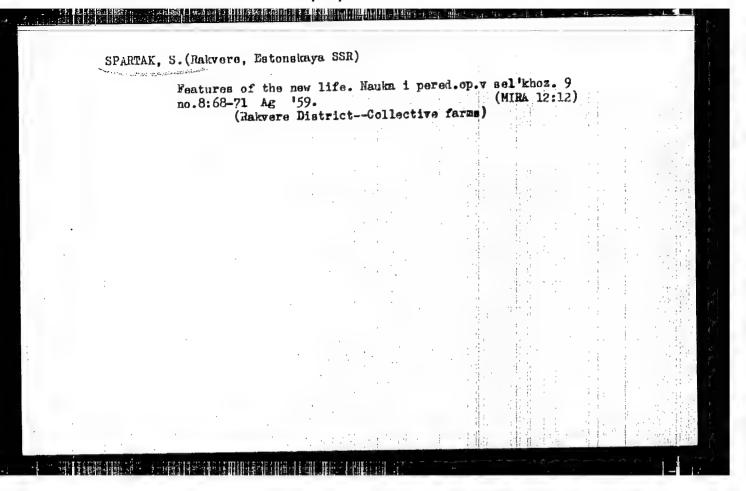
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STHETHEN, IT I

USSR/Physics - Aerosol particles dipole moment

FD-2983

Card 1/1

Pub. 146 - 24/28

Author

: Spartakov, A. A.; Tolstoy, N. A.

Title

: Rigid dipole moment of aerosol particles

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Periodical

: Zhur. eksp. i teor. fiz., 29, September 1955, 385

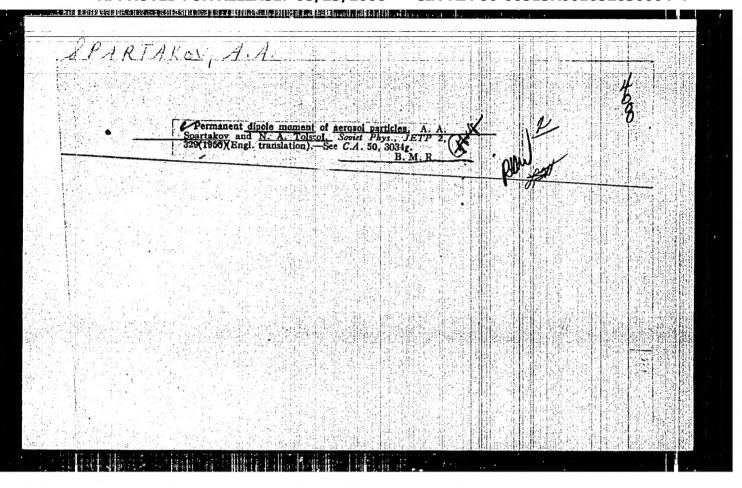
Abstract

: New methods of investigating electro-optical phenomena in hydrophobe colloids (N. A. Tolstoy, P. P. Feofilov, DAN SSSR, 66, 617, 1949; N. A. Tolstoy, DAN SSSR, 100, 893, 1955) which are based on the study of the modulation of light passing perpendicularly to the lines of an electric field through a planar condenser fed by rectangular voltage impulses show that colloidal particles in aqueous media possess rigid dipole moments of quite considerable magnitude. It is assumed that this rigid dipole moment is caused by spontaneous orientation of water molecules adsorbed on the surface of the particle, which have a rigid dipole. The unipolarity (in the mean) of this orientation permits one to liken the water film adsorbed on the particle to a surface piezoelectric. The present writers carried out similar experiments with aerosol, and found that the electrooptical properties of the mist can be perfectly similar to the properties of hydrophobe colloids. They state that the establishment of the dipolarity of mist particles can possess significance for the explanation of the mechanism governing the aggregation of noncharged particles in mists.

Institution

Leningrad Technical Institute

Submitted: May 12, 1955



STOY, N.A.; SPARTAKOV, A.A.; KHIL'KO, G.I.  Electrooptical properties of lyophobic colloids. Fart 1: Statement of the problem, principal methods and results. Koll. zhur. 22 no. 6:705-716 K-D'60. (MIRA 13:12)  1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, Kafedra fiziki. (ColloidsOptical properties)
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(ColloidsOptical properties)
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of the light modulation curs	re on a oscillo	graph gave a Li	saious fig	ore of the
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